

RB551V-30S

Schottky Barrier Diode

Features

- For Power Supply
- Moisture Sensitivity Level 1
- Low Voltage, Low Inductance

Mechanical Data

- Package: SOD-323
- Terminals: Tin plated leads, solderable per
- J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- Marking: DS

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Peak Repetitive Reverse Voltage	Vrrm	V		30
DC Blocking Voltage	V _R	V	I _R =100uA	20
Non-repetitive Peak forward surge current	I _{FSM}	А	tp=8.3ms, half sine	2
Average forward current	IFAV	А		0.5
Power Dissipation	PD	mW		200
Thermal Resisitance Junction to Ambient Air	R _{θJA}	°C/W		500
Junction temperature	Тj	°C		125
Storage temperature range	T _{stg}	°C		-55 to +150

*Part mounted on FR-4 board with recommended pad layout.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB551V-30S	F2	Approximate 0.0048	3000	30000	120000	7" reel

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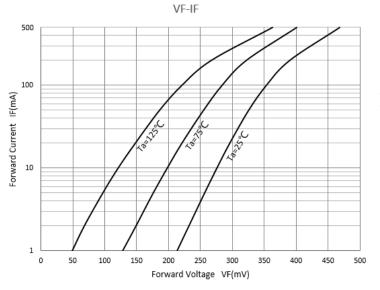


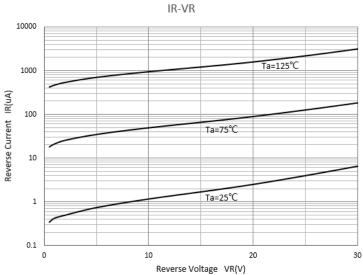
RB551V-30S

Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	Symbol	UNIT	Conditions	Min.	Тур.	Max.
Forward Voltage *	V _F	V	I _F =0.1A	-	-	0.37
			I _F =0.5A	-	-	0.47
Reverse Leakage Current	I _R	uA	V _R =20V	-	-	100

Typical Characteristics



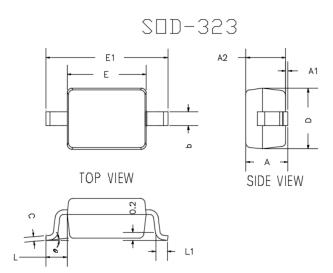


Cj-VR 100 Capacitance Between Terminals C_j(pF) 0 5 0 10 15 20 25 30

Reverse Voltage VR(V)



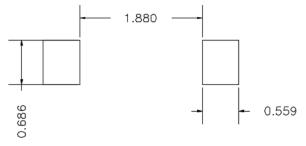
Outline Dimensions



DIMENSIONS					
DIM	INC	HES	ММ		
	MIN	MAX	MN	MAX	
А		0.0393		1.0000	
A1	0.0000	0.0039	0.0000	0.1000	
A2	0.0314	0.0354	0.8000	0.9000	
b	0.0098	0.0157	0.2500	0.4000	
c	0.0031	0.0059	0.0800	0.1500	
D	0.0472	0.0551	1.2000	1.4000	
E	0.0629	0.0709	1.6000	1.8000	
E1	0.0984	0.1063	2.5000	2,7000	
L	0.018	7TYP	0.475TYP		
L1	0.0098	0.0157	0.250	0.400	
0	0°	8°	0°	8*	

SIDE VIEW

Soldering Footprint



UNIT: mm SUGGESTED SOLDER PAD LAYOUT

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Disclaimer

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